PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

KEC'D	1	j	MAR	2006
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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	ON	See Form PCT/IPEA/416	
57637/1361			Priority data (day/month/year)	
International application No.	International filing date (day/month/year)			
PCT/US04/42710	20 December 2004 (20.12.2		23 December 2003 (23.12.2003)	
International Patent Classification (IPC) or national classification and IPC				
IPC: A61K 31/675(2006.01); A61F USPC: 540/474; 514/79	43/00(2006.01);C07D 257/0			
Applicant				
BRACCO IMAGING S.P.A.	The state of the s			
Examining Authority und	er Article 35 and transmitte	ed to the applicant a	ished by this International Preliminary according to Article 36.	
2. This REPORT consists of	f a total of <u>5</u> sheets, in	cluding this cover	sheet.	
3. This report is also accom	panied by ANNEXES, com	nprising:	İ	
a. (sent to the applic	ant and to the International	l <i>Bureau</i>) a total of	sheets, as follows:	
sheets of the of this report of the sheets of the of this report of the sheets of the sheets of the sheets of the of the sheets	e description, claims and/o ort and/or sheets containin section 607 of the Administr	or drawings which g rectifications au rative Instructions)	have been amended and are the basis thorized by this Authority (see Rule	
amendment	ich supersede earlier she that goes beyond the di item 4 of Box No. I and th	isclosure in the i	this Authority considers contain an international application as filed, as bx.	
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))				
4. This report contains indi	cations relating to the follow	wing items:		
Box No. I	Basis of the report			
Box No. II	Priority			
	Non-establishment of opinicapplicability	on with regard to n	novelty, inventive step and industrial	
Box No. IV	Lack of unity of invention			
Box No. V	Reasoned statement under industrial applicability; cita	Article 35(2) wit	th regard to novelty, inventive step or ions supporting such statement	
Box No. VI	Certain documents cited			
Box No. VII	Certain defects in the intern	national applicatior	1	
Box No. VIII	Certain observations on the			
Date of submission of the demand		Date of completion	on of this report	
06 July 2005 (06.07.2005)		06 March 2006 (06	5.03.2006)	
Name and mailing address of the IPE		Authorized officer		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	3	Brenda L. Colema	I. Roberts for	
P.O. Box 1450 Alexandria, Virginia 22313-145	50			
Facsimile No. (571) 273-3201	<u> </u>	Telephone No. 57	1-2/2-1000	

Form PCT/IPEA/409 (cover sheet)(April 2005)

Internationa	l application N	lo.	

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Box No.	Basis of the report
	regard to the language, this report is based on:
	he international application in the language in which it was filed.
	translation of the international application into, which is the language of a translation furnished or the purposes of:
[international search (under Rules 12.3 and 23.1(b))
[publication of the international application (under Rule 12.4(a))
	international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
furnish	regard to the elements of the international application, this report is based on (replacement sheets which have been need to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" e not annexed to this report):
\boxtimes	he international application as originally filed/furnished
	the description:
1	pages 1-63 as originally filed/furnished
]	pages* NONE received by this Authority on
	pages* NONE received by this Audiority on
\boxtimes	the claims:
	pages 64-38 as originally filed/furnished
	pages* NONE as amended (together with any statement) under Article 19
	pages* NONE received by this Authority on pages* NONE received by this Authority on
	pages* NONE received by this Addionity on
	the drawings:
	pages NONE as originally filed/furnished
	pages* NONE received by this Authority on
	pages* NONE received by this Authority on
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to the sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	the description, pages
	the claims, Nos
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to the sequence listing (specify):
* If iter	n 4 applies, some or all of those sheets may be marked "superseded."

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International	applicatio	n	No.

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Box No.	ш	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The ques	stions v trially	whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to applicable have not been examined in respect of:
	the en	tire international application
	claim	s Nos. 2-4 and 6-22 (in part)
	becau	se:
	the sa	id international application, or the said claim Nos relate to the following subject matter which not require an international preliminary examination (specify):
	the de	escription, claims or drawings (indicate particular elements below) or said claims Nos are so ar that no meaningful opinion could be formed (specify):
by the w	mean	laims, or said claims Nos. 2-4 and 6-22(in part) are so inadequately supported by the description that no singful opinion could be formed (specify): escription where R, R3 and R9 are bound to the polyazamacrocyclic compound via an additional CH2.
	no in	sternational search report has been established for said claims Nos.
	a m pres	eaningful opinion could not be formed without the sequence listing; the applicant did not, within the cribed time limit:
		furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
		furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
		pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2.
	did rea	leaningful opinion could not be formed without the tables related to the sequence listings; the applicant not, within the prescribed time limit, furnish such tables in electronic form complying with the technical hirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not itable to the International Preliminary Examining Authority in a form and manner acceptable to it.
	the con	tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not uply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See	Supplemental Box for further details
		1400 (P)1 - IID (A 11 2005)

Form PCT/IPEA/409 (Box No. III) (April 2005)

International application No. PCT/US04/42710

	. 25/5			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims	NONE	YES	
10.025		1, 5, 6-22 (in part) and 23	NO	
Inventive Step (IS)	Claims	NONE	YES	
	Claims	1, 5, 6-22 (in part) and 23	NO	
Y Janeiel Austinatility (TA)	Claime	1, 5, 6-22 (in part) and 23	YES	
Industrial Applicability (IA)		NONE	NO	
Journal of Physics. ZIMOVA teaches the compound R, R3 and R9 are COOH; and R6 is PO ₂ H ₂ , PO ₃ H ₂ ,	ds, composition, PO ₂ H-CH ₂ -C step under PC	33(2) as being anticipated by ZIMOVA et al., Czechos ons and method of use of the polyazamacrocyclic compose, Po ₂ H-CH ₂ -C ₆ H ₄ -NH ₂ , or PO ₂ H-CH ₂ -C ₆ H ₄ -NO ₂ . That Article 33(3) as being obvious over ZIMOVA et al.,	ounds where	
Claims 1, 5, 6-22 (in part and 23 meet the criteria s use of the polyazamacrocyclic compounds have industry.	et out in PCT astrial applicat	Article 33(4), and thus the compounds, compositions a pility because the subject matter claimed can be made on	nd method of r used in	

Form PCT/IPEA/409 (Box No. V) (April 2005)

International application No.

PCT/US04/42710

Box No. V	TIT Cartain	observations on	ı the international	application
KOX INO. V	tti Certain	onservations or	i ille illerhandhar	application

Box No. VIII	Certain observations on the international application		
supported by the d	ervations on the clarity of the claims, description, and drawings or on the question whether the claims are fully escription, are made:		
indefinite for the fa	Claims 2-4 and 6-22 (in part) are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims are indefinite for the following reason(s): the structural formulaes set forth in claims 2-4 are such that there is and additional -CH ₂ -noiety linking the variable R, R3, R6 and R9 to the nitrogen atoms of the polyazamacrocyclic ring system.		
moiety miking the	variable K, Ko, Ko and Ko to the mixegen atoms of the projudent everyone trig exercise.		
j			

Form PCT/IPEA/409 (Box No. VIII) (April 2005)